Menlo Park Notebook #73 [N-80-02-02]

This notebook covers the period February-September 1880. It was used, probably by Albert Herrick, to keep a record of the lamps burning at the Menlo Park laboratory complex between February and May 1880. Near the end of the book is an index to the lamps. Toward the end of the book there are also a few other notes, calculations, and drawings, including one dated September 20, 1880. On pages 272-281 is a list of carbon lamps, numbered 1-248, which appears to be in Edison's hand. The label on the front cover is marked "Record of Lamps." The inside front cover is inscribed: "Notice All lamps in this book have enameled inside globes unless otherwise mentioned." The book contains 284 numbered pages.

Blank pages not filmed: 204-205, 210-211, 228-229, 234-261, 266-271, 282-283.

Missing page numbers: 13-14, 21-22, 195-196, 223-224.

No 73 Frame

all Lamps in this book
have enameled inside globes
unless otherwise mentioned

LIBRARY OF THE

BOARD OF PATENT CONTROL,

120 BROADWAY, NEW YORK.

May 1, 1896.

B.C. Letters Work and Ex

Pos 112 Ps 10

Commenced running at — Feb 2. 1870 2.00 P.M.

Feb 2 8.00 ✓
" 2 11.00
" 3 — 11.00 over 30.00 hrs

Burned carbon #10 — 1 carbon not
see. burnt from
burnt total carbons 172

18 carbons 1 S carbon 10,800,000
1 S carbon 10,800,000
1 S carbon 10,800,000

381 Illinois Running Corn

Res. 125

Commenced burning at | ~~Feb. 2 1880~~ 2:00 P.M.

~~Feb~~ 2 8.00
2 11.00
3 11.00 Total 30.00 hrs burning

Burned March 13 1880

Total hours 730 March 13 at 8:30

4

573 Darius Remington S

Rec. 122

Commenced Running at | Feb 2. 1880 2 00 P.M.

Feb. 2 8.00
2 11.00
3 11.00 Total hours 30.00 Ppm

Where

Buried

6

676 Chromolithic Press organ 7
Pos. 167

Commenced running at— Feb 2. 1880
10. 00 A.M.

Feb 2. 2.00
3 11.00 total 13.00
3 11.00 " 24.00 ✓
8 11.0
4 16.03 - 51.00

Cannot trace at - Pos. 7.
Enamelled cracked Edwin

8

579 Church Jonn Logan 9
North adder

Reo 164

Commenced burning at | Feb 2. 1880
10. m PM.

Feb. 2 2.10
2 11.10
3 11.10 Total hours 24.40 Noon

579

Burned

Burned 43 46 Total hours

10

575 Over Iron Electr. Beach 11

Jon Assn. Ld Jr. Chm

Commenced } Feb 2. 1880.
beginning at — 11.30 AM

Rec. 174. high able meeting Enumerated.

Feb 2 .30
2 11.00
3 11.00 Total hours 22.30

3 1.00
4 11.00
5 8.00 " " 32.30

Position changed
Position like at Station 7

4-61 Over Beautiful desk
taken from Services during room Proc
Rec. 15-8
Commenced | Feb. 2 1880
running at — Ohio 40 th
Hours turned 160. 15 Services.

	Hours each Day	Total
Feb. 2		160 See Book 74 page 185
" 3	11 10	One 152 Hours

, Pinned & first chandelier.
from organ center pipe
Feb 14 191 Up & the South.

Broke at Proc

665 In telephone room in Central Office Exchange Services Store from Rec. 16th

Commenced running at — 1 Feb 2 1880 / 12.00 noon

Had Guard 160.18 in Services
Too. 2.11.10
" 3 11.00 Total Hours 182.15 noon

Passed to Chairman Committee Bench, on Feb. 10. 1880
over from Bethnal
after being brought from Division
Police for Perusal

Booked by Being Remarked
by accident Feb 20 1880

B.S.

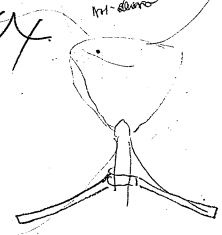
83

772
772
1544
5404
5404
59598

212
72
150.

772
3.5
33 | 99
170

587. Astronomy
On ocean waves Stevens
1st one second chronometer from
organ Res 200
Begin note
Commenced Feb 2. 1880
running at 6 PM
Feb 21
Has run at total of 12. hours
14. 40 minutes.
Instrument



Laboratory
547 on leading brass Wheeler
2 apple stand Chandelier from Repair
Reg. 175-

Commenced burning at- 1 Feb 2 1880
6.00 P.M.

Up Feb 2 12 hours.

Broke after burning 0 13. 14 hours

GT

574 Patrons Prefer Antelope

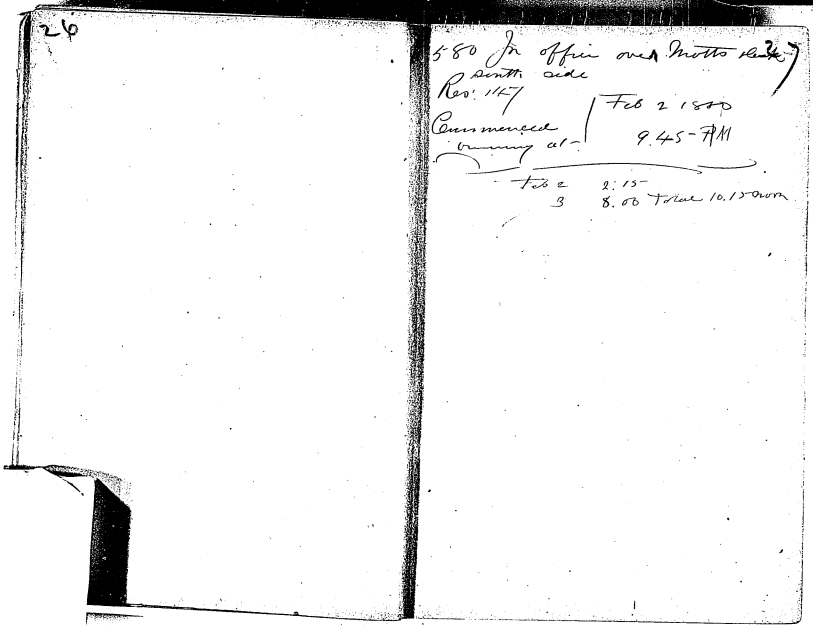
Rec'd 136 ; Feb. 2 1880

Commenced 2.00 P.M.

Temp at

Feb. 2 3.30

3 3.30 Temp at noon


24
5-80 In office over Mutto Bank
Rec. 1147
South side
Commenced running at
Feb 2 1880
9.45-AM
Feb 2 2.15-
3 8.00 Total 10.15 Hours

No. Lamps 593

Resistance 3145 –

~~Rheostats~~ Clamps Fleming

Carbon Monsville fiber

Sealing Enameling

Vacuum

Places In Chandelier ~~north side~~

In forward hub near ~~telephone room~~
Over Fannies Desk In Edison Chandelier

Date Feb	Each day	Total hours
Feb 9	8.30	

Number of glass burnt – about –
43 Dozen Lites

No of lamps 5-94 Res 95-31

Carbons Enamelled fibre

Clamps Plumbags

Sealing Enamelled

Vacuum

Position In south side J.st - chandelier over Tel. room

Over Tel. Desk Changed By Edison

Date	Hours Burning	Total Hours	Remarks
Feb 9	8	88	PM
			Put in in Second Chandelier
			Broken in about - 2 hours total

32

No 9 lamp 592 Res. 427 33

Carbon ~~Enameling~~ Enamelling Enamelled Paper

Enameling

Sealing Enamelling

Varnish

Position On Frame Work Bench

immediately on printing Op.

Worker	Name employed	Total h.	Remarks

No of Camps 375 Rec 828

Carbon Manila Fiber

Camps Plumago Jar

Sealing Brunnelene

Position Carrying on cross top Bonging

H pumps no 8. recelonic

Date	Meters per day	Letter & Remarks
		Banned 20 minutes
		Carbonized Fiber Tube at Pa.
		7th claims

No of Lamps 578 Res 165 —

Carbon Lamps

Clamps Platinum

Sealing Enameling

Vacuum

Position Over Desk by side of Long table in Lab. - removed to Laboratory

20	Date	Hours per day	Total hours
Feb	2	11	20
"	3	11	20 — 22 10

No of Lamps 334 Res
Carbon Large
Clamps Platinum
Sealing ensmelsing
Position on table by microscope
Changed after running 6/. 30 From Hammer

		Hours		Hours	
Feb	3	6/.	30	6/	36

Remarks

No of Lamps 529 Res. 154

Parkes Large

Plantes Platinum Res. 2

Sealing Enamelling

Vacuum

Parkin ~~On~~ First Lamps on Arcs from ~~Number~~. Minimum by Lamps

Date	Hours per	Lamps	Total	Remarks
Jan 29	1	80		Commenced Running
" 30	22	00		
" 31	22	00		
Feb 1	6	00		
" 2	10	00		
" 3	11	00	9280	

Changed 2 Lamps in North side shown by Arrow

Feb. 17 1880

Commenced on street C.O.O.

Bustard

42

No 8 Lamps 597 Rds 167

Barium Lamps and assy small Ground Clamps platinum

Lobbying Commencing

Finished

Pistons on Ground Lamps were Pivoted to stock Clamps to Obtain 1st from Tel Electrodes were nuggets Burned

Watts	Lamps per	Trips	Time
60.	5	11	00
"	3		

Burned after Running on Tolerance

8 80 hours [illegible] Continuous

Broke at — pos 2

43

619 Francis room

Room to Commenced) 4 Feb. 9 1880

Turning at— 6.00 PM

Hotel Rio. Inspectors

618

Res 150 | Feb 9 1880
Commenced | 6.00 PM
burning at -

Burned March 4. 1880

Iris crossed one
Canna - good.

Iris burnt.

Bill burn

Cana burning at 1.30
March 5. 1880
Taken down to photometer room

25-5-Jn Decind ch[illegible]

[illegible] pumps

Rs 200 Fac. 9 1880

Brick in brick mustard

[illegible]

[illegible]

Bmsled ui- pvs.'

in left- hand ao stroke

ni chumaliteu middle

between denominations

Total Rmn 750 Rmn

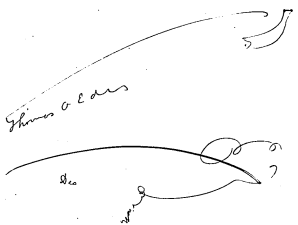
= 8231 880

586 Given away old desk
Removed to room over ~~the~~ C. Bench Laboratory
Rec'd 164

Commenced burning at- | Feb. 4 1880 5.15 PM.

Feb. 4 7.00
" 5 22.00
" 6 22.00
" 7 22.00
" 8 22.00
" 9 22.00
106.00

Commenced burning total at
~~2.30 PM~~ 10.1880
Removed to Hamilton chair from organ room this side
Burned at pos. 7
~~at~~ 12 Noon Sun
Total burned 481



621 Mr Brandlees Bachelors house 53
Rec. 150 Bottleneck Mr. Bottleneck house for tap hole
Commenced 480 11 1850
burning at 6 at 7.00

March 24 Busted at clamps

480 hours

54

55

1874 Found In Telephone room

When Vacant — is Exchange

Rec. 130

Commenced Feb. 10 1880

Burning at — 10.00

Have burnt — 200 hours

Moved to Chm over Am Bankers

Cross Hook Feb 13 mentioned

on sheet changed

Total 398 hours

Burned

58

629 Jon Mr. Batchelors Parlour 9

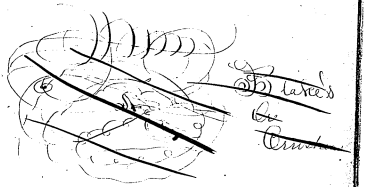
Nov. 150

Commenced / Feb. 12 1850.
Burning at at 6.40

Bristol Boy Jim

Burnt Coal house 29

Feb 15 1850



620 near Bimbis Bends

Pegs 680 ~ | Feb. 11 1880

Commenced | at W.C.P.W.
Running at

Broken at Pegs. 9.

Burnt in total of 22 hours
1/
1/
4

Total 38 hours

457 Jno Jno Britton Attorney
Plff. Time
Commenced 13th Feb 1880
Summons &c—
Copies & ret'd. & ad. Sheriff 06
Declaration and Writ 11 110—
Total 455—

182 Mr Batchelor cutting-room

A.R. 160 Have found- The wind was

Commenced Dec. 18 1880

Running at-

Up to 8th Feb. 3 From 945

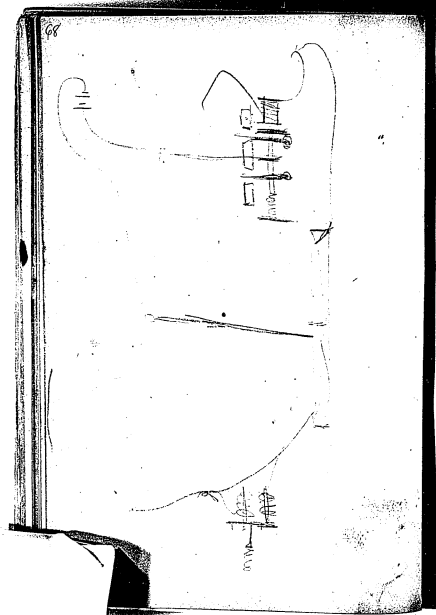
From 9th to 11th 110

Time — 455 Total

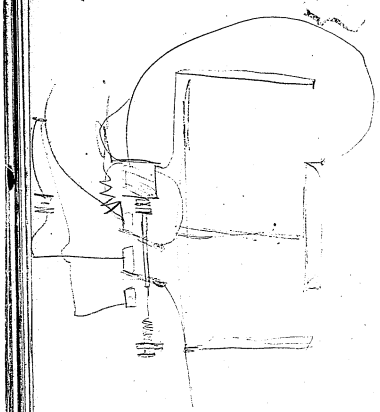
241 Jno Van Brocklin Dining room
Hot and cold Time at 97 rid
Beds
Res 160

Commenced Feb 12 1880
finishing at -

Hours Limit from Beds 3 45 - limit
" 12th —— 110 "
455



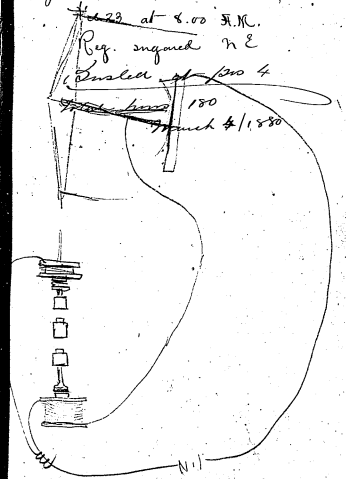
409 Iron in Office Bunt
560 hours moved over
to Mr Batchelors Desk
Feb 18, 1880
Feb. 22. 1880 Visited at
Wis. 6
Total hours 582



713 Jos Chinn by urgum Cas. 71
South side Rm 143.
B.B. Fed. 23. 01-8 AMD. Monday.
Reg. surgical
Bad effect in carbon.
Brush after [illegible]
[illegible] on 7 to 24/1880
attpd - 8. 01-8 quick.

114. for Chandelier. Hinged frame
organ, south side
Rec. 136

~~Ord 23 at 8.00 P.M.~~
Reg. engaged ~~N E~~
Unsealed ~~at~~ 180 4
~~Total hours~~ 180
March 4/1880



74

715 Jan Chandelier third from organ 75

Kathe voice Piano 112

Com. burning at Feb. 23 8 P.M.

Reg engaged

Started at 1.30 Feb 25. 1880

Total hours 30.30 Carbon holder

at pos. 5.

716 Chandelier fourth from organ
North side Rec. 146

Com. burning Feb. 23 5 P.M.
Reg engraved

Burned at 1 P.M. March 1 1880

158 hours total time burned

696, On sham. near organ, south 79
side, (Longstreth)

Res. 136

Large bass fiber N. E.

Bruised Branch 3. Tree trunk

216 lines

Lamp first—

731 In front of Edwards house
Scotts circle
Feb 123

Commenced burning at 4 oo P.M. | Feb. 25 1880 | Large Globe N.E.

Removed to N.E.S.E.C. Large Corp Plaza
Bristed Branch, 1880
Total hours 89 hrs

Lamp-post

732 Corner Plank road & Ulfo.

Dev. 135°
Com. turning
at 4.00 P.M.

Feb 25 1880
Lange. Globe

Use 5. Bal. Lange Lamp

Bristed — d. 27 1880

ad- [illegible]. — Prov. Hfo.

ad- 6.00 P.M. ~~25 Feb~~

Stolen [illegible]

84

733 Jan Direct-Lamps by corner of Laboratory Yard Rec. 186
Conn. burning at 4.10 P.M. | Feb 25 1880 | Large Globe

No 5 Sol. Large Crit. Nat-L.

March 4 186
March 25 Total hours 36½ hrs

1774 First time Editions page 87

Records

Burnt 114 houses } Jan 3 1880
Jan 3 1880 } Jan 3 1880

Taken out by Customers

Jan 6 1880

Found in old book on Page 37

total houses burnt

part in the corner of plank walk

Total houses burnt 774 houses

Yes- on sheet- six errors / sent-
ops without- recording

Jan 3 1880 Feb. 22 (three above
figures are very nearly correct)

738 Lamps - post by the
corner of Mr Peterson's yard
put up at Remarks On Sheet
Feb. 22 4.00 —
Perm. burning | Burned Hours 2 1880
Total Expenses 104

796 another lamps former end
Table marked 786 Burned
at post last examp.
Total hours 6

414 Jd lamp-post- between
corner lamp-post of Mill & ourd,
corner Lot. Braid

Post up about
Feb. 18 1880

Printed about 480. hours subsequent

Printed on March 4 1880

730 Jn Chem 4y agm south
Side Rec. 16'0
Commenced beginning at 11.3 Feb. 26. 1880 { Hammered Plated or Draft of Carbon

Moved to Mr Batchelors Bench

Taken down & Mr B. Home.

73 << Second Chum from ugm 75
with rattle

1 Feb 1378

Commenced
Training at
£.30 Hills 25 Feb

Reg ~~Sch~~. Large Corps
Standard Ord.

Booked at pro. 1 ~~Sergeant~~

Total hours ~~85~~ 286

engines room

1885 Jan 1st Chron. from Observ. with Sidereal

Rec'd. 137

Commenced

borrowing at—

£.80 from Feb. 26

Reg. Large Carbon Photo

soaked in standard sol.

—

Feb 26. 1885 4.00 P.M. moved to Engine room by dynamo room

Burst by slamming door

March 3. 1885. Total hours 160

Carbon traced at 6. P.M.

Stadt-Amt Bergedorf

Ill. Jos. Telephonnetz vom

Hasse pfl. in Jan. 1880

Rec. 1-1

Stück 1 . 1880 1

Apparate

660 Nummern

Position ~~Direct Lines~~ 7871
749 at Corner of Upstone Yard.
Rev 130 feet ~~W~~ } on Chart.
March 1880 }

Buried
Down very Badly dismembered
Glass Hole.
No-

Position ~~X~~ Lamplighter ~~X~~ appointed
746 ~~Gordon Lamplighter~~ corner
to 746 Burnt at 7/8 time
Rec. 147 corner Jan 20 hours
and brought back to Catonsville
Taken out to office corner
Burnt 20 hours

Total hours 60 hours
Gordon hustled out a letter
above Church
Jno Cartman says that
was dull red by hand contact
and then cracked out

Annie E. Parker

~~Position of Lamppost~~

770 Upton's Hall -

Reg 143 Commenced burning at 12 noon March 2 1880

Reg Carbon
& Standard 2cl.

Burned

March 6 1880

~~Port Lamsport~~ Big Batchelors

764 Jno Williams Room

Rec. on rock

Rbench 2 1880 7.10 1880

Large loop Stm dumd Rl.

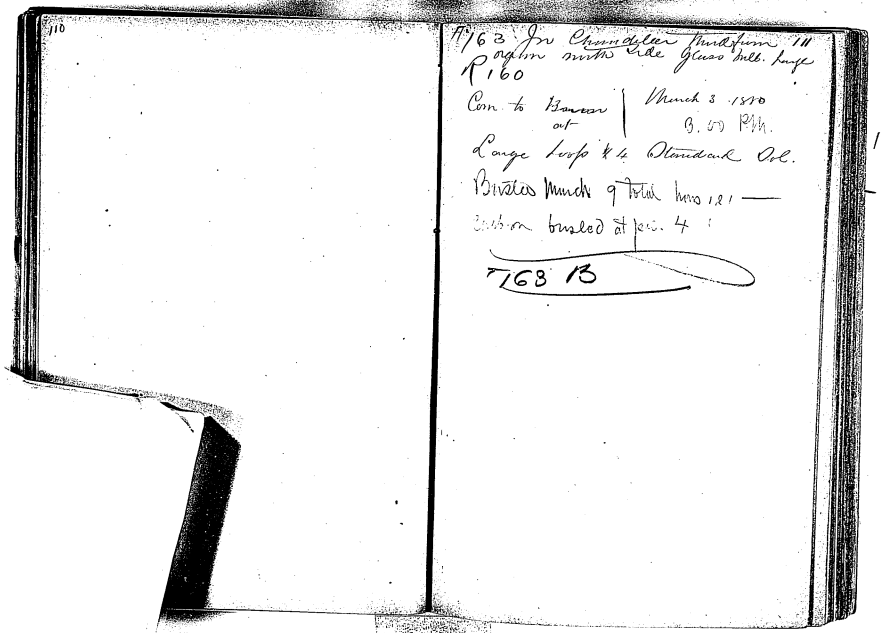
769 Good Over Any Week
Rec 173 Large globe and glass
Commenced Running at
March 3 1880

Large loop Standard Set.

Batteries at March 5 4.30 P.M.

Glass broke by leading wire
Carbons all in small pieces

Total 74 lamps


110

T163 for Chancellor Tindafum 11
Dogton with Tile Glass Mlb. Lamp
P160

Com to Bacon at | March 3 1880
9.50 P.M.

Lamp Lamp 4 4 Oleomarine Oil.

Barrels March 9 Total hours 121 ——

Cash on hand at Jan. 4 [illegible]

T168 B

767 Jos Wm Batcheler sitting room Large Globe and Glass

Born. Burning at— Res 163 { Church 8 1886 at 6.45 PM.

Large Lens 8 1/4 Dol.

Burnt 40 hours tested between 7 & 5—

168 Jos Wm Satchelor Hull 115

Lenge Lods Glass

Rec'd 90 March 3 1880

Commenced

borrowing at

Lenge Imps Standard Sol.

Jos B.
1763 Jno Ono Batchelors Chamney —
10 Oct Large Gold glass
Rec. 17£ | March 3 1780
Comm. Journy | 6. P.M.

Large Loop Standard Oct. 4th

773 Mr. Batchelor Jimmy—no 19
Large bulb glass
Rec. 205 March 3 1880
Conv. Jimmy at 6.10 PM
Edisons Dil. paper pressed
soaked and pressed again
two
Burnt 40 hrs total

756 Sent to John Trangs
760 Steamer Pallas two
741 Jas Simmells one two
771 Jas Hopkinson

1 March 2 1880

775 Jos Chem by my in mutto aisle
Red 210 Large B Glass
Com to burn | March 8 1880
1.m P/W.
Edison Solution Reg Porfo
paper passed before and after
Soaking — 7 — 2 — 7 —
March 11 Still running
165 hours Stopped to dust
F Gme March 15, 1880

764 J. to transport Schreiber
Shops and Lab
Conv. training / March 2 1880
Reg. 167 at / at 6.00 P.M.
Reg Baron Stumm ~~Stumm~~
Granted. March 13 1880
180 hours —ic—

788 In mind from organ
Res. 176 Small globe, glass middle
Small loops 0.15
Error March 4 at 10 — 1880
Taken down & sent to test — March 4

757 on Vand-Lunch at—

reg. table	Res
Rom. Cunning at	Munich 1880 at 4.00

Iowa Lunch Corp Standard Del

Munich 4 – 66 hms

790 for Chem (Smith order) turned off from regular
Rec'd
Commenced
to burn
March 5 1880
at

~~Broke~~

gave Brooks Bros
made of 18 sheets of
tissue paper tube
total length 24"

1883 Jn Brackett on Engineers

Rec 190

Commenced 8 hours | March 4 1880 at 8.30 PM.

Broiled Glass carbon off gauged immediately

785- Engine rooms Jas bracket—

R. 157

Corrd to boom { March 3 1850
300 P.M.

Glass broke carbon burned out
to pencil Total hours 16.

182 Jn Engine-room in Brattle

Rec. 196

Comm. to burn } March 3 1880 at 3.30 P.M.

Burned March 13/1880

Total hours 96

181 Jn Mr Brucei Hall
Rec 149
Com'd 8 hours
March 8 1880
d 3. 00 P.M.

Went in permitter a peach
Mr C. ~~Jones~~
at 7.00 ~~this~~ March 6 1880
~~blab~~ hours

795 Exp. on Photometric
direct Beams
Res 190
Commenced { March 5 1880
beginning d- { 7.00 A.M.
Small Loop Reg. Carbon

Del part over Charlies Bench
Reg. 198
Rulson ar-8.06 March 8 1880
Large hop 18 Trains out-
and pressed together

Moved & chum. by organ
and broke after turning
40 hours total 13 hr ar-
per ~~#12~~ pro. "

802 In Compound between
Res. 96 58 Deb. 32nd and 33rd Streets
Commenced March 4 1880
3.00 PM
to 6mm

Busted March 9 1880

Burnt 98 hours

803 Corner of Plumb mulk

to depot

Rec'd 89

Commenced | Munch 4 1880
8.00 P.M.

to Arms at

Boarded Munch 10 '880

Beard to State home 193 hours

742 Jos Chem. by pumps
Moved down stairs to exp. with
brought back and put on Bench B.
Bench Room 14.1880
1 Student Room

832 Given to Rev. Barker
839 ~~to~~ exp. north
724

March 12/1880

700 taken from B. House 153

Res 144 | March 14 1880
Com Stamp | at: ——
H as burned

80 14
66 48
14

14)66(5
0
2

Res 400 135

704 on reading Ones have 1624 cm
Res. 406 burnt 502 hands still
Upto March 18 Ape 21 cm

705 on arm by Ngwavaetpo
Res 225
table 502 hands still burning
March 18 Com. burning Ape 21/1880

Bass fibres 6th 10
1st 7 12

9,40

Ape 8 X 1880

104 —	31 / 14
502	43
270	5
81 2	18 / 15 / 90
Braided at clamp	18 / 270

very bright [illegible]
the hands blue

1066 Jn Chem. Fy organ
Rec'd South side
~~Aug 8 10 P.M.~~
C. B. May 8 6 P.M.
Paper cartons cut with over
mold with over platen mine clamp
carbon loops holes drilled in
ends them so that over armed go
through them
moved to new Charles
Bench carbon trolley at
post 6
May 12 5.80.
Total time spent this
May 18 at days 5. 00 P.M.
ked d.
14 X 5 = 70 hours to tow. hrs.

1075 Jr Chan. ty organ
Res North Side
Mary & 8 P.M. C.B.

Platinum clamps very short-
so mould. have to drill holes
in carbon carbon cut - in so
mold

1067 Over Flanners bench
Rec'd. Nearest organ
C.B. May 8 6.00 P.M.
Paper cartons cut in new
mold with new bottomm
clamps for carton have holes
drilled in ends of them
so screw would go through
both of them

1971 Second Chan. Iron organ
Walthside
C.B. Thurs 8 11 am.

Copper clamps made same
as reg. platinum clamps
with emboss from next owned
Jesus ticket one side carbon
stepper out of clamp
Tube tests running about 25

Upper Chan. north side Third from organ

C.B. May 8 at 11 am.

copper clamps made very short - so have to drill holes in carbon for screw to go through carbon from new mold

166

Ground Glass behind pumps 167
Hammer box record No. 6
Rig no.

1078 Ground on Mass. by
organ grass. Stoke clamps fixed
to side of [illegible]
[illegible] May 14 1880
Copper clamps made as
short as would have to allow
holes in carbon for screw
to go through carbon Same
Screw used

1079 Our annual Race

Race

Comm. running Sunday 18 1880

1030 a.m.

Cleared Course out by Chas. Hearn on cabin machine This race one of the first three out

Buoys Away 19 at —

Stood every Dog's heat driven motor boat on buoys No 380 broke during the experiment

Buoys Race —

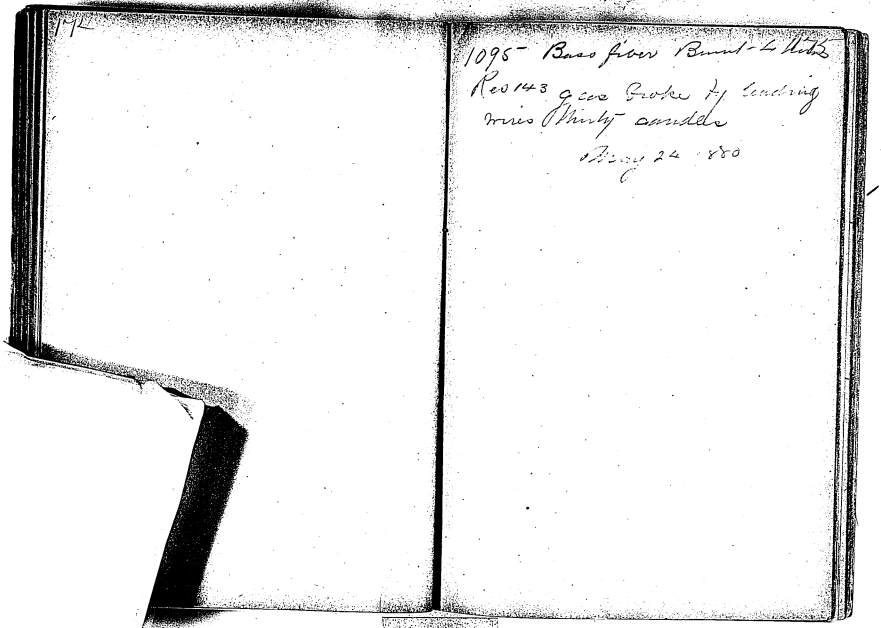
172

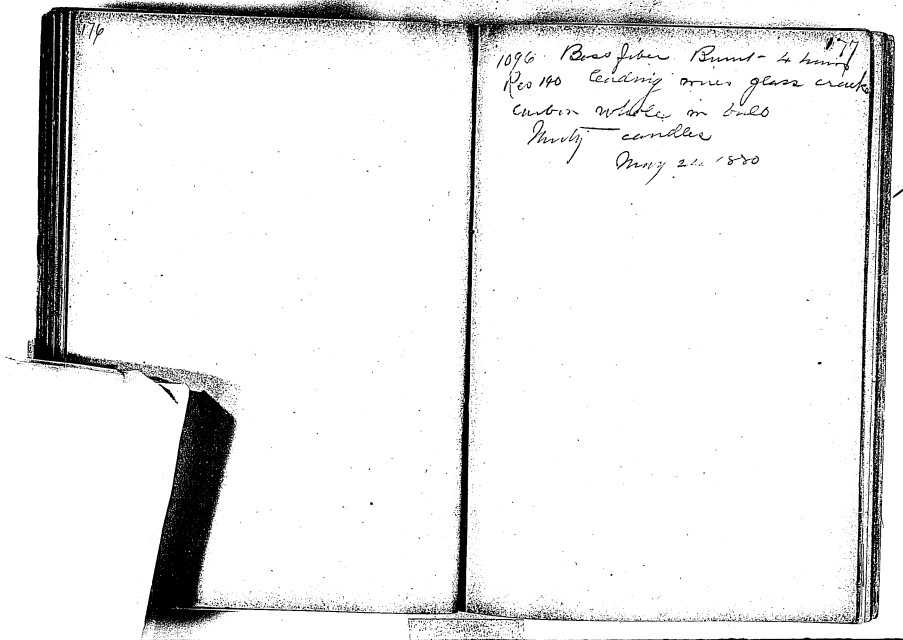
1880. Dow Dunn. Ames 173

Con. Jowning May 13 1880
10.30 A. M.

Hard cannon out by Chas.
Dunn on case indicating
one of first time

Broke here after Jowning
Started at 6.00 P.M. other
Jowning crews on railroad
time Time 5 hrs. very hair
gal. down about off scale


1095- Bass from Burnt-Land
Rec'd 43 good Grubs by sending
mine Thirty candles
Aug 24 1880



178

1098 Fruit - one on human diet 179
125 Jum from - dues

Con, 4 hours 9 P.M.

Jany 24 1880

T. Ruby - candle flame

Bass fiber cocoa nut - shell
clumps are not of fiber

Bent tied in - Pith same lines

1 + 2.20 Knot 2 3 hours 20 mins

turned very fine on side
and broke immediately

Glass tube by one of
Pending ones

10¼ Second one on drum 2 [illegible]
140 from first- closed
Com to turn 9.30 P.M.
May 24
Bass Ideer cocoa nut-shell
on ends of fiber
30 candle power

Started at camp [illegible]
10.30 [illegible]

9094 third one on mesa June 183
1289 mm front-door

Cows burning 9 30 PM.

Rusty crumble fence —

1 Bags fiber cocoanut shell
clamps ~~to fiber~~ Cmpds

1086 7 months one from front door
135 on ancient Clock

Com. Summons 8 P.M.
Delay 24

1 Bass fiber coconut-
shell on end of fiber
1 Rubber Candle Jar

1 Bucket at 15 Cts
4 horse Summons

Inside glass cracked
at Reading
Ins

186

78 2
32
6

15 4
9
135
32
167

187

1052 Lawsons Room

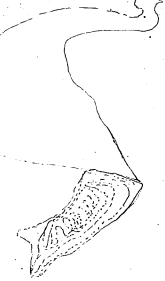
145 May 24 Sat - 8 P.M.

Mrs Candler Jones

Bass Fiber crossarm - shell
on end of fiber

Tube tube has only
1 curve Broke at -
90 Cm. < 2 mm
Total time

189



13
13
39
13
169
144
121

Half size lamp
400 hms

154 — 40 Ohms

51
51
51
255
2605
44
10420
16420
10 | 114.620
2865.

2800) 33600 (11.
28
50

12 per H.P

192

193

2200
6250
6290
6250
1550
2 | 22870
11435

| 334
711

2.0453
2.0453
1.6464
7.9431
3.6801

1/4

4790 | 4.5195
.8394

6.18
7 for H.P.

16
5.3
21.3

21.3
7
149.1
150 candles for H.P

Dep 20 1880

fuse- boiled linseed oil
Tele stuff then boiled
with Asbestos nitric and S.G.

~~boiled linseed oil~~

Asphaltum 3
Jarafin .1-
3:5-

more linseed oil
heat and more Asphaltum
M.G.

Linseed oil boiled
Asphaltum
Asbestos

198

199

27 parts oil of cotton
80 parts oil of [illegible] } heated together in a chaldron 180°C.

20 parts linseed oil
1½ " sulphur
5 " wax of paraffin — 6 hrs 150°C

104.

1/5 27/1

27/5 5: 5/5 parts of oil
2 6. oil for

12 6 linseed oil
4 4/5 2 3/5 sulphur
2 wax paraffin

Collins O.K.

Naphalin

Camphor

Poly charm O.K.

Glycerine

~~Chloroform~~

~~Chloroform~~

Chloroform

1 Linseed oil
4/5 Sulphuric
1 Boax & Paraffine

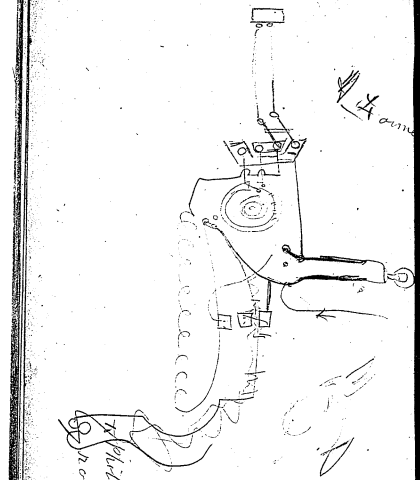
Miss:

Mississippi

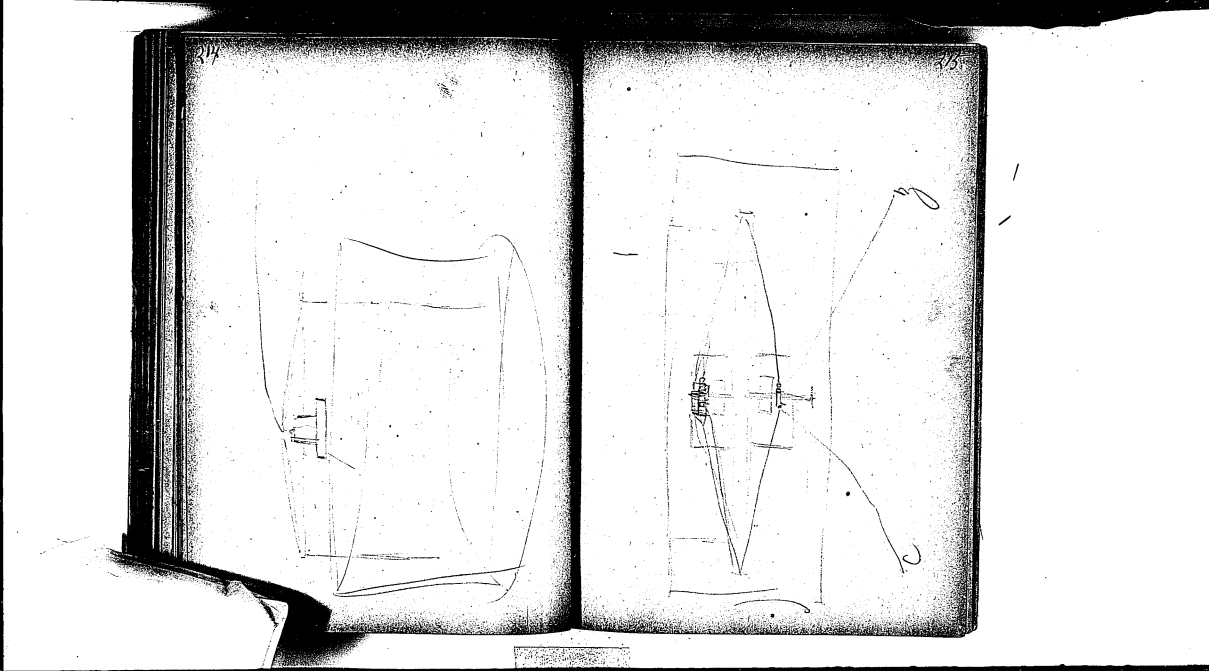
Mississippi

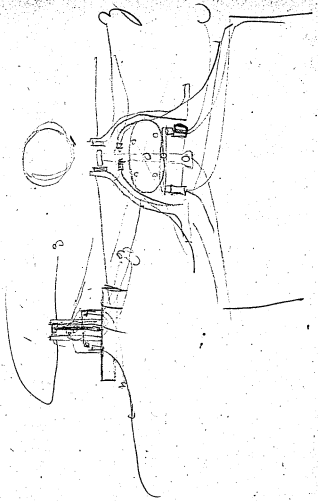
Mississippi

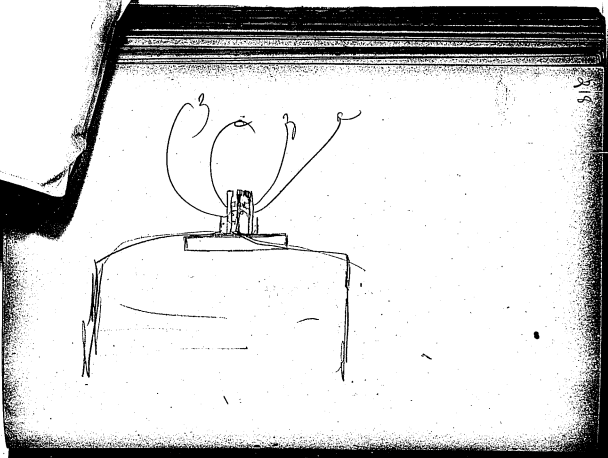
150
9
5 | 1350
230
92
262 Tons

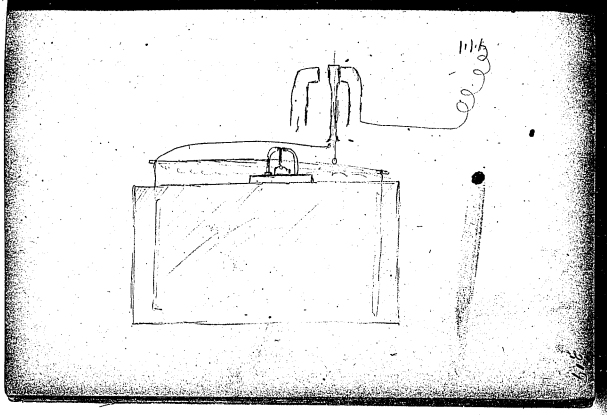


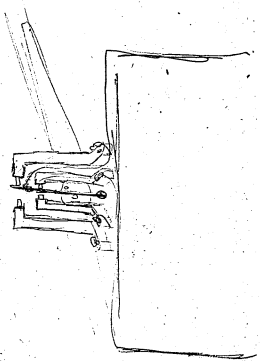
Grm. 100 asphaltum X
" 60 resin X
" 20 beeswax X
" 20 caoutchouc
" 160 linseed oil
" 24 Litharge X
" 30 Ox. Magn. X
" 10 Borax X
" 10 Lime

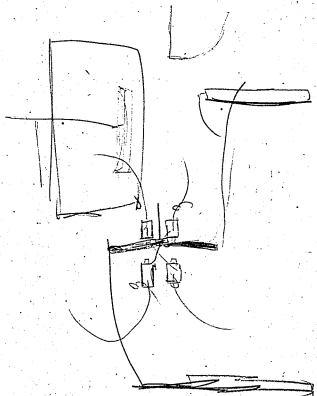


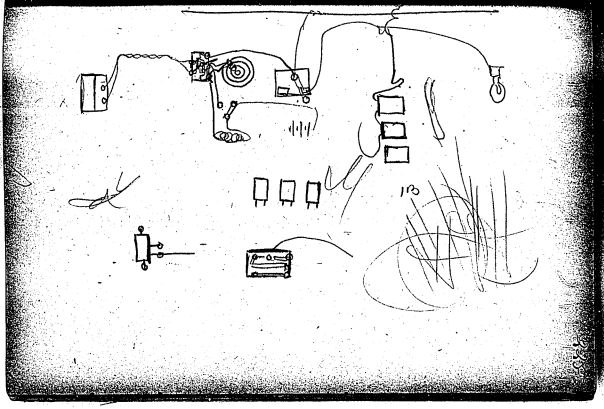




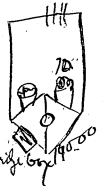


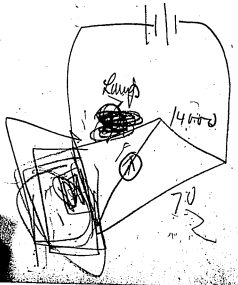






20) 10000 (50
100
0





100
400
800
1600
3200

1
2
4
8
16
32

6300
3
12600

3200
1600
4800
500

Jchl
3200
3200
6400

Jchl
Will you
Will you go to
the house.

53 Left Right -
31 " Left - Not - perfect - yard

Lamp 246 R
243 L

Battery L 33
R 33 } OK
con

232

20) 200 (10 10 / 21.60

20) 240 (12 — 12 / 108 / 96 / 12 / 1080 / 25920

2160

1.08 / 1,08 20 / 21.60

216

32) 200 / 64) 276 (4.2 / 256 / 140

3.

2 21.6 / 4.2 / 432 / 864 / 90.72

233

No 1 first - 256 free 225.8

No 2 first - 254 " 250

No 3 first 267 " 259

~~No 4 first 223 " 2~~

No correct - reading

No 5 first 249 full 5 288

No 6 " 268 " 263 4263

7 " 270 "

203

2162 217

216

Brace #

	12		34		56		78	
Feb								
4	11	00	11	00	10	00	11	00
5	22	00	6	00	0	00	22	00
6	22	00	9	00	[illegible]	[illegible]	18	00
7	11	00	10	00	[illegible]	[illegible]	[illegible]	[illegible]
7	11	00	3	00	[illegible]	[illegible]	[illegible]	[illegible]
8	22	00	2	00	21	00	00	00
9	11	00	[illegible]	[illegible]	[illegible]	[illegible]	2	00

Words 100 to 200	Page	Words 300	Page	Words 400 to	Page	Words 500	Page
255	49	311	99	461	15	562	1
157	65			465	17	581	3
241	67			474	57	573	5
194	87			~~477~~	~~59~~	576	7
				457	63	579	9
				409	69	575	11
				414	91	557	19
						547	23
						574	25
						580	27
						593	29
						594	31
						592	33
						595	35
						578	37
						534	39
						529	41
						597	43
						586	57
						621	73

Words 600 to	Page	700	Page
619	45	713	71
618	47	714	73
621	50	715	75
629	59	716	77
620	61	731	81
696	79	732	83
		733	85
		736	89
		730	93
		734	95
		735	97
		749	101
		746	103
		770	105
		764	107
		769	109
		763	111
		767	103
		768	115
		763	117
		773	119
		775	123
		787	125

1 Broke in log carbon
2 Clear glass broke pressed
3 Carbon broke to wick from clamps
4 Glass broke - clear glass
5 Clear glass broke
6 Clear glass broke
7 Clear " "
8 Carbon broke at clamp - white around wire
9 Carbon broke - clear glass
10 Carbon broke, clear glass tit
11 Carbon " " " " tog tits + il
12 Carbon " " " "
13 Clear glass broke
14 Carbon broke - clear glass tits
15 Carbon " " " "
16 " " " tog tits
17 " " "
18 " " at clamp — tits
19 Glass broke clear glass tits
20 Carbon " " "
21 Carbon broke, white around wire -
22 " " clear glass tits
23 Glass broke - white around wire
24 " " "
25 " " "
26 Carbon bucked - clear glass tits
27 " " white around wire
28 " " "

29 Carbon bucked - white around wire
30 " " " "
31 " " clear tit
32 " " "
33 " " "
34 " " white around wire
35 " " "
36 Clear glass broke — clear tits
37 Carbon broke — white on wire
38 Carbon broke — "
39 Glass broke — "
40 Carbon " clear glass
41 Glass broke white on wire
42 Carbon " "
43 " "
45 " "
46 Carbon broke "
47 " "
48 Carbon broke clear glass
49 " "
50 Glass broke - white on wire
51 Carbon broke - enamels tog
52 " " clear glass
53 " " white on wire
54 Carbon broke - white on wire
55 " " " "

56 Carbon broke - oc - white on wire
57 " " " "
58 " " "
59 " " "
60 " " "
61 " " Clear glass
62 " " oc white on wire
63 glass - oc ——
64 " oc "
65 " clear
66 Carbon "
67 " oc - white on wire
68 " Clear glass -
69 glass broke "
70 Carbon " "
71 glass oc white on glass
72 Carbon broke oc
73 - " "
74 - glass, oc - "
75 Carbon broke - Clear glass

76 - Carbon broke Clear glass
77 " "
78 " Enameled top
79 " Clear glass
80 Carbon broke - "
81 - glass " Enameled top
82 Carbon " "
83 " " Clear
84 " " Clear
85 - glass broke — Enameled top
86 - Carbon broke - Clear glass
87 - " " Enameled top
88 glass broke — Clear
89 Carbon broke Clear
90 glass broke Clear
91 " " "
92 " " "
93 Carbon broke — clear
94 " " "

95 – Carbon broke – Enameled top
96 " " Clear
97 " " "
98 " " "
99 glass broke – Clear
100 Carbon broke "
101 – glass broke "
102 Carbon broke "
103 " "
104 glass broke – "
105 Carbon " "
106 " "
107 – " "
108 " "
109 " "
110 " "
111 " "
112 " "
113 " "
114 " "
115 " "

116 Carbon broke – Clear
117 " "
118 " "
119 glass broke – "
120 Carbon broke "
121 " "
122 " "
123 " "
124 " "
125 —— " "
126 – glass broke – Clear
127 Carbon " "
128 " Substances
129 " " Clear
130 glass broke
131 – Carbon " "
132 " " "
133 " " "
134 – Carbon broke Clear
135 —— " Clear
136 —— " "
137 – Carbon broke Clear
138 – glass broke "
139 Carbon broke "
140 glass broke DC
141 Carbon broke Clear
142 " " "
143 glass broke DC

144 glass broke — Clear
145 " " "
146 Carbon broke "
147 glass broke "
148 glass broke - OC
149 " " Clear
150 " " "
151 — Carbon broke "
152 glass broke "
153 " " Clear
154 Carbon " Clear
155 — glass broke "
156 Carbon broke "
157 " "
158 glass broke "
159 " " "
160 " " "
161 " " OC
162 glass broke Clear
163 Carbon — Enameled
164 " Clear
165 " "
166 " "

167 Carbon broke Clear
168 glass broke - "
169 " "
170 — " "
171 — " "
172 — Carbon broke - Clear
173 — Carbon " "
174 — " " Enameled
175 — " "
176 — Carbon " Clear
177 " " Enameled
178 " " "
179 " " "
180 — " " "
181 — Clear
182 Carbon broke Enameled
183 " " Clear
184 " "
185 — glass broke Clear
186 Carbon " Clear
187 " "
188 — " " — Enameled
189 — " "
190 " "
191 — " "
192 — " — Clear
193 " " "

194 Carbonbroke – Clear
195 — " — "
196 — " Enamel
197 " "
198 — " "
199 " Clear
200 — " — Clear
201 glass broke "
202 — " "
203 Carbon Broke "
204 " "
205 — " "
206 — " "
207 — glass broke "
208 " "
209 — Carbon broke "
210 — " "
211 — " "
212 — " "
213 — " "
214 — " "
215 — " "
216 — " "
217 — glass broke "
218 — " "
219 — " "
220 — Carbon broke "
221 — " "
222 — " "

223 glass broke Clear
224 — " "
225 — " "
226 — Carbon broke "
227 — " "
228 — " "
229 — " Enamel
230 — " "
231 — " "
232 — " "
233 — " "
234 — glass broke "
235 — Carbon broke – "
236 — " "
237 — " "
238 — " "
239 — " "
240 — " "
241 — "
242
243
244
245
246
247
248

65 glass broke

241
65
176 — 65
Carbon — 65 glass

Thursday 11 November